

66. The invention according to Claim 65 wherein quick depression of throttle (60) by the operator is utilized to overtake another vehicle while in the cruise mode.

67. The invention according to Claim 37 wherein said electric motor is utilized primarily when conditions for cruise mode are not satisfied.

68. The invention according to Claim 37 wherein said running state is cruise mode operation, said engine which continues to run during non cruise mode operation is utilized to transfer power output into electric power which is captured and consumed in fast charge-discharge battery (58).

69. The invention according to Claim 37 wherein instant powerful acceleration is provided by said motor (12) when said vehicle speed is dropping.

70. The invention according to Claim 51 wherein said speed demands do not drop below 40 mph for predetermined time periods of 45 seconds during first and second time periods of operation for cruise mode operation of said motor vehicle.

71. The invention according to Claim 51 wherein said motor powering said hybrid motor vehicle at lower speeds provides acceleration at higher speeds.

REMARKS

Added Claim 62. dependent from Claim 37 specifies logic control circuitry utilized to determine utilization of engine power (22) to drive the vehicle or supply electric power to the battery (58) and finds antecedent support at least e.g. as seen in Fig.1.

Claim 63 dependent from Claim 62 specifies certain logic input parameters and finds